



xLights/ Nutcracker

xLights/Nutcracker History



- xLights was written in 2010 by Matt Brown. Matt is a LOR user and wanted a show player that was fast, small and reliable. xLights is a multi-platform sequence player and converter capable of handling 10's of thousands of channels reliably and with minimal load compared to the native sequencers for the file formats it can support.
- Nutcracker was written by Sean Meighan in Feb 2012 to create effects on smart RGB devices. It was originally a PHP based program used via a web browser.
- In late 2012, Matt Brown contacted Sean about integrating Nutcracker into xLights by doing a full conversion from PHP to C++ and by January 2013 they were one unified application.

xLights



- Cross-platform, supported on Windows (XP, 7, 8) , Mac OS-X and Linux
- Supports output to E1.31, DMX, LOR, Renard, D-Lights, and Pixelnet, and OpenDMX
- Channel test mode supporting single-channel, Dumb RGB, and Pixels.
- Contains the most flexible sequence converter available:
 - Supported Formats: LOR, Vixen 2.x/2.5, Vixen+, xLights, FPP, Lynx Conductor, Glediator & HLS (NOTE: Vixen 3.x is NOT supported)
- Flexible scheduler supporting sequences synced to audio or video files.
BASIC scripting language built-in for full customization of playlists as well as external interaction.

Nutcracker



- Model and Effect based RGB animation sequence creator
- Real-time preview of effects as they are being edited, both on-screen and optionally output to lights.
- Models are created of each display item using one of the pre-configured configurations or a custom model layout may be created.
- Up to two different effects can be applied to a model at the same time.
- Effects library allows you to easily save and re-use effects in other sequences.

Nutcracker - continued



- Timing marks can be imported from xLights files shared from other users or created using Audacity.
- Ability to export effects for a single model for import into other sequencers or players.
- Randomize feature to generate random effects across one or more models.
- Cell protection to prevent updates to completed sequenced effects.
- Newest effects include animating faces and piano keys

Nutcracker - Usage



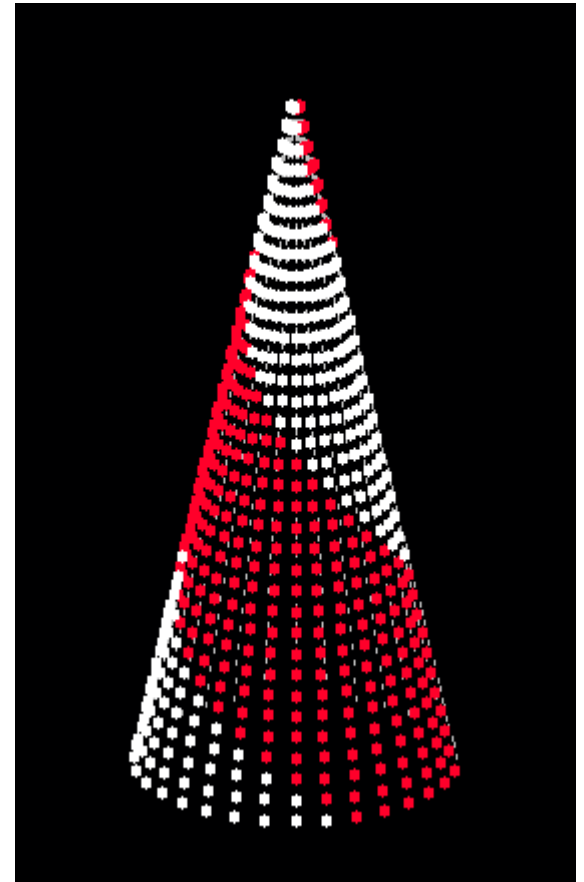
- Download/Install Software (Windows-executable, Linux Source)
- Set show directory
- Configure outputs on the Setup tab
- Create models in the Nutcracker tab
- Create a sequence
- Specify which models to use in the sequence
- Add timing marks (by hand or import from Audacity)
- Add effects to models at desired times

xLights/Nutcracker Links



- Main Nutcracker web site with Windows binaries
 - <http://nutcracker123.com/nutcracker/releases/>
- λ Mac OS downloads
 - <http://dankulp.com/xlights/>
- λ Source Code
 - <https://github.com/smeighan/xLights>
- λ Nutcracker Tutorial Videos
 - <http://vimeo.com/user10339343>

Demo!





Q & A